



### **ACTIVITY 1.3- Molecular Movement in Water**

#### Materials:

- 2 identical clear glasses
- 2 bottles of liquid food coloring
- 2 liquid measuring cups or jars
- Water
- Ice

#### Procedure:

1. Set up your observation area with the glasses and food coloring.
2. Combine 1 ½ cups of cold water and ½ cup of ice in a measuring cup or jar.
3. Pour 1 ½ cups of hot tap water into a separate cup or jar. Microwave for 30 seconds to heat the water further.
4. Remove the ice from the cold water.
5. Fill one glass with the hot water and fill the other glass with the cold water, doing your best to get the levels even. (Condensation will form on the cold glass, but you'll still be able to see the results.)
6. Give the water a few seconds to stop moving, then add a drop of food coloring to each glass at the same time.
7. Observe how the color spreads throughout each glass. This is called dispersion. Does one seem to be getting around faster than the other? Why is this so?